

**Project Name:** Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD  
**Project Code:** DLR **Site ID:** 241 **Observation ID:** 1  
**Agency Name:** QLD Department of Primary Industries

#### Site Information

<b>Desc. By:</b> M. DeCorte	<b>Locality:</b>
<b>Date Desc.:</b> 07/06/91	<b>Elevation:</b> 300 metres
<b>Map Ref.:</b> Sheet No. : 8257 GPS	<b>Rainfall:</b> No Data
<b>Northing/Long.:</b> 7754914 AMG zone: 55	<b>Runoff:</b> No runoff
<b>Easting/Lat.:</b> 498957 Datum: AGD66	<b>Drainage:</b> Imperfectly drained

#### Geology

<b>ExposureType:</b> No Data	<b>Conf. Sub. is Parent. Mat.:</b> No Data
<b>Geol. Ref.:</b> No Data	<b>Substrate Material:</b> No Data

#### Land Form

<b>Rel/Slope Class:</b> Rolling low hills 30-90m 10-32%	<b>Pattern Type:</b> Low hills
<b>Morph. Type:</b> Flat	<b>Relief:</b> No Data
<b>Elem. Type:</b> Plain	<b>Slope Category:</b> Level
<b>Slope:</b> 1 %	<b>Aspect:</b> 130 degrees

**Surface Soil Condition (dry):** Firm

#### Erosion:

#### Soil Classification

<b>Australian Soil Classification:</b>	<b>Mapping Unit:</b> N/A
Mottled Eutrophic Brown Chromosol Thick Non-gravelly Sandy Clay-loamy Very deep	<b>Principal Profile Form:</b> Dy2.22
<b>ASC Confidence:</b>	<b>Great Soil Group:</b> No suitable

Analytical data are incomplete but reasonable confidence.

**Site Disturbance:** No effective disturbance other than grazing by hoofed animals

**Vegetation:** Low Strata - Tussock grass, <0.25m, Very sparse. \*Species includes - Bothriochloa pertusa, Eragrostis species, Chrysopogon fallax  
 Mid Strata - Tree, 1.01-3m, Very sparse. \*Species includes - Eucalyptus erythrophloia, Petalostigma pubescens

Tall Strata - Tree, 6.01-12m, Sparse. \*Species includes - Eucalyptus erythrophloia, Eucalyptus crebra

**Surface Coarse Fragments:** No surface coarse fragments

#### Profile Morphology

A1	0 - 0.07 m	Dark brown (10YR3/3-Moist); ; Coarse sand; Massive grade of structure; Sandy (grains prominent) fabric; Many (>5 per 100mm2) Fine (1-2mm) macropores, Dry; Very weak consistence; , Calcareous, , , , Gypseous, , , ; Field pH 6 (Raupach, 0.05); Common, very fine (0-1mm) roots; Gradual, Smooth change to -
A2	0.07 - 0.38 m	Brown (7.5YR5/4-Moist); ; Coarse sand; Massive grade of structure; Sandy (grains prominent) fabric; Many (>5 per 100mm2) Fine (1-2mm) macropores, Dry; Very weak consistence; , Calcareous, , , , Gypseous, , , ; Field pH 6.5 (Raupach, 0.3); Common, very fine (0-1mm) roots; Clear, Smooth change to -
B1	0.38 - 0.65 m	Strong brown (7.5YR5/6-Moist); Mottles, 7.5YR56, 2-10% , 0-5mm, Faint; Mottles, 2-10% ; Clayey coarse sand; Massive grade of structure; Earthy fabric; Many (>5 per 100mm2) Fine (1-2mm) macropores, Moderately moist; Weak consistence; Very few (0 - 2 %), Manganiferous, Medium (2 -6 mm), Nodules; , Calcareous, , , , Gypseous, , , ; Field pH 6.5 (Raupach, 0.6); Common, very fine (0-1mm) roots; Gradual, Smooth change to -
B21	0.65 - 1.25 m	Strong brown (7.5YR5/8-Moist); Mottles, 10YR54, 0-2% , 15-30mm, Distinct; Mottles, 0-2% ; Coarse sandy clay loam (Heavy); Weak grade of structure, 10-20 mm, Subangular blocky; Smooth-ped fabric; Many (>5 per 100mm2) Fine (1-2mm) macropores, Moist; Firm consistence; Few (2 - 10 %), Ferromanganiferous, Medium (2 -6 mm), Nodules; , Calcareous, , , , Gypseous, , , ; Field pH 6.5 (Raupach, 0.9); Abrupt, Smooth change to -
2A2eb	1.25 - 1.5 m	Light yellowish brown (10YR6/4-Moist); ; Coarse sand; Massive grade of structure; Sandy (grains prominent) fabric; Many (>5 per 100mm2) Fine (1-2mm) macropores, Wet; Very weak consistence; Very few (0 - 2 %), Manganiferous, Medium (2 -6 mm), Nodules; , Calcareous, , , , Gypseous, , , ; Field pH 7 (Raupach, 1.5); Abrupt, Smooth change to -
2B2b	1.5 - 1.6 m	Yellowish brown (10YR5/4-Moist); Mottles, 7.5YR58, 20-50% , 5-15mm, Prominent; Mottles, 20-50% ; Coarse sandy clay loam (Heavy); Weak grade of structure, 20-50 mm, Prismatic; Smooth-ped fabric; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Moderately moist; Very firm consistence; , Calcareous, , , , Gypseous, , , ;

#### Morphological Notes

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**Site Notes**

**Observation Notes**

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**Laboratory Test Results:**

Depth	pH	1:5 EC		Exchangeable Cations		Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m	Ca	Mg	K	Na Cmol (+)/kg			%
0 - 0.07	6A								
0.07 - 0.38	6.7A								
0.38 - 0.65	6.5A								
0.65 - 1.25	7.1A		6.5J	1.9	0.4	0.2	3.6I		5.56
1.5 - 1.6	6.6A								

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**Laboratory Analyses Completed for this profile**

15F1_CA	Exchangeable bases by 0.01M silver-thiourea (AgTU)+, no pretreatment for soluble salts
15F1_K	Exchangeable bases by 0.01m (AgTU)+, no pretreatment for soluble salts
15F1_MG	Exchangeable bases by 0.01m (AgTU)+, no pretreatment for soluble salts
15F1_NA	Exchangeable bases by 0.01m (AgTU)+, no pretreatment for soluble salts
15F3	CEC by 0.01M silver-thiourea (AgTU)+
15N1	Exchangeable sodium percentage (ESP)
4A1	pH of 1:5 soil/water suspension